

SEQUENCE LISTING

<110> COHEN-HAGUENAUER, Odile

<120> RETROVIRAL VECTOR FOR THE TRANSFER AND EXPRESSION OF GENES FOR THERAPEUTIC PURPOSES IN EUKARYOTIC CELLS

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<140> US 09/433,322

<141> 1999-11-03

<150> US 08/270,662

<151> 1994-06-30

<150> FR 9308015

<151> 1993-06-30

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<170> PatentIn Ver. 2.1

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tggaaaccgaa gccgcgcgcg ggtcttgc tgctcgacca tcgttctgtt ttgtctctgt 1140  
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tcctcctctg acctctataa ctggaaaaat aacaacccct ctttctccga ggaccagct 1920  
aaattgacag ctttgatcga gtcgttctc cttactcatc agcccactg ggatgactgc 1980  
caacagctat tagggaccct gctgacggga gaagaaaaac agcgagtgtc cctagaggcc 2040  
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<210> 12  
<211> 1975  
<212> DNA  
<213> Viral DNA used for FOCH29

<400> 12  
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agagaagttc agatcaaggg cgggtacacg aaaacagcta acgttggcc aaacaggata 180  
tctgcggta gcagttcgg cccccggccc gggccaagaa cagatggtca cggcggtcg 240  
gccccggccc ggggccaaga acagatggtc cccagatatg gccaacccct cagcagttc 300  
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ttgggagggt ctcctcagag tgattgacta cccgtctcgg gggtcttca tttggggct 600  
cgccgggat ctggagaccc ctgcccaggg accacccgacc caccacccggg aggttaagctg 660  
gccagcaatt gttctgtgtc tgtccattgtt cctgtgtctt tgattgattt tatgcgcctg 720  
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ccgggaccca gggccaccct ctccctgacgg gaacggcgat agcggagaag tggccctac 1620  
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ctccgaggac ccagctaaat tgacagctt gatcgatcc gtttccctta ctcacatcgcc 1860  
cacttggat gactgccaac agctattagg gaccctgctg acggggagaag aaaaacagcg 1920  
agtgcctcta gaggcccgaa aggcgggtcg agggaggac ggacgccccaa ctcag 1975

<210> 13  
<211> 862  
<212> DNA  
<213> Viral DNA used for FOCH29

<400> 13  
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agtttccaga aaaagggggg aatgaaagac cccaccaat tgcttagcct gatagccgca 180

gtaacgccat tttgcaaggc atggaaaaat accaaaccaa gaatagagaa gttcagatca 240  
agggcggtta cacgaaaaca gctaacgtt ggc当地acag gatatctgcg gtgagcagt 300  
tcggccccgg cccggggcca agaacagatg gtcaccgcgg ttc当地ggccccc gccc当地ggcc 360  
aagaacagat ggtccccaga tatggcccaa cc当地cagcag tttcttaaga cccatcagat 420  
gttccaggc tccccc当地agg acctgaaatg accctgtcc tt当地ttgaat taaccatca 480  
gc当地gttct cgcttctgtt cgccgc当地tcc tgcttccgaa gctctataaa agagctcaca 540  
accctcaact cggcc当地tcc gctccgatag actgagtcgc cccgggtaccc gt当地tatccaa 600  
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agagtgattt gactaccgtc tc当地ggggtct ttc当地tttgggaa ggctc当地tccg ggatctggag 720  
accctgccc agggaccacc gacccaccac cgggaggtaa gctggccagc aattgttctg 780  
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ccgactagat tggtagtctgg cg 862

<210> 14  
<211> 1617  
<212> DNA  
<213> Friend murine leukemia virus (F-MuLV)

<400> 14  
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gc当地aaatggc caaccttcaa cgtc当地ggatgg cc当地cagacg gc当地ttttaa cccagacatt 180  
attacacagg ttaagatcaa ggtcttctca cctggcccac atggacatcc ggatcaggc 240  
ccctacatcg tgaccttgggaa agctatagca gtagacccccc ct当地cttgggt cagacccttc 300  
gtgc当地cccta aacctccct ct当地cttccc cttc当地gccc cctctctccc acctgaaaccc 360  
ccactctcga ccccgccccca gtc当地tccccc tatccggctc tc当地ttctcc tt当地aaacacc 420  
aaaccttaggc ct当地aacttctt tc当地tctgatgc ggaggaccac tc当地ttgatct actcacggag 480  
gaccctccgc ct当地accgggaa cccaggggca cc当地cttccctg acgggaaacgg cgatagcgga 540  
gaagtgggcc ct当地acagaagg agccccc当地tgc当地 ccttccccc当地tggatcccg cctgccc当地gggaa 600  
agaaaaagaac cccccc当地tggc ggatttctact acctctcagg cgttccccc当地tgc当地cttgggaa 660  
ggaaatggac agtataataa ct当地ggccattt tc当地cttctg acctctataa ctggaaaaat 720  
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ctccaaaacg cgggcaagaag ccccaactt tggccaaagg taaaaggat aaccctggga 1080  
ccttaatgagt ct当地ccctcagg ct当地ttttagag agactcaagg aggccctatcg cagataact 1140  
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gaggaacgtt ttagggagaga aacagaggaa aaggaagaac gccgttagggc agaggatgtg 1380  
cagagagaga aggagaggaa cccgcaagaaga catagagaaa tgtagtaagg tctggctact 1440  
gtc当地gtttagcg ggc当地agaca ggatagacag ggaggagagc gaaggaggcc ccaactc当地gac 1500  
cacgaccagt gtgc当地tactg caaagaaaag ggacatttggg ct当地agatgg ccccaagaag 1560  
ccaagaggac cccggggacc acgaccccaag gc当地ccctcc tgacctttaga cgattag 1617

<210> 15  
<211> 909  
<212> DNA  
<213> Friend murine leukemia virus (F-MuLV)

<400> 15  
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gcagaatggc caaccaa cgtcgatgg ccacgagacg gcactttaa cccagacatt 180  
attacacagg ttaagatcaa ggtttctca cctggccac atggacatcc ggatcaggtc 240  
ccctacatcg tgacctggga agctatacgatgc gtagaccccc cttccctgggt cagacccttc 300  
gtgacccta aaccccttctca cttccctcc cttcagccc cttctctccc acctgaaccc 360  
ccactctcgatcccgccca gtcctccctc tatccggctc tcacttctcc tttaaacacc 420  
aacaccttaggc ctcaagtctt tcctgatagc ggaggaccac tcattgatct actcacggag 480  
gaccctccgc cttaccggga cccaggggca ccctctctg acgggaacgg cgatagcgga 540  
gaagtggccc ctacagaagg agccctgac cttccctcaa tggtatcccg cttccctggga 600  
agaaaaagaac ccccggtggc ggattctact acctctcagg cttcccttc tcggctggga 660  
ggaaatggac agtatcaata ctggccattt tcctctctg acctctataa ctggaaaaat 720  
aacaaccccttcttcga ggaccctgatc aaattgacag ctttgatcga gtccgttctc 780  
cttactcatc agccctacttggatgactgc caacagctat tagggaccct gctgacggga 840  
gaagaaaaaac agcgagtgtcttccataggcc cgaaaggcggttcgaggggga ggacggacgc 900  
ccactctcgatcccgccca gtcctccctc tatccggctc tcacttctcc tttaaacacc 909

<210> 16

<211> 413

<212> DNA

<213> Friend murine leukemia virus (F-MuLV)

<400> 16

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gcagaatggc caaccaa cgtcgatgg ccacgagacg gcactttaa cccagacatt 180  
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ccctacatcg tgacctggga agctatacgatgc gtagaccccc cttccctgggt cagacccttc 300  
gtgacccta aaccccttctca cttccctcc cttcagccc cttctctccc acctgaaccc 360  
ccactctcgatcccgccca gtcctccctc tatccggctc tcacttctcc tttaaacacc 413

DNA sequence analysis  
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